特 許 協 力 条 約

PCT

特許性に関する国際予備報告（特許協力条約第二章）

（法第12条、法施行規則第56条）
〔ＰＣＴ36条及びＰＣＴ規則70〕

出願人又は代理人 の書類記号 SP70	今後の手続きについては、様式ＰＣＴ／ＩＰＥＡ／416を参照すること。	
国際出願番号 ＰＣＴ／ＪＰ2004／012286	国際出願日 （日．月．年） 26．08．2004	優先日 （日．月．年） 26．09．2003
国際特許分類（ＩＰＣ）Int.Cl.⁷ H04N5/265, G06T3/00, H04N1/387, 1/393, 5/222, 5/225 // H04N101:00		
出願人（氏名又は名称） シャープ株式会社		

1．この報告書は、ＰＣＴ35条に基づきこの国際予備審査機関で作成された国際予備審査報告である。
法施行規則第57条（ＰＣＴ36条）の規定に従い送付する。

2．この国際予備審査報告は、この表紙を含めて全部で ＿＿＿3＿＿＿ ページからなる。

3．この報告には次の附属物件も添付されている。

  a．☑ 附属書類は全部で ＿＿＿9＿＿＿ ページである。

    ☑ 補正されて、この報告の基礎とされた及び／又はこの国際予備審査機関が認めた訂正を含む明細書、請求の範囲及び／又は図面の用紙（ＰＣＴ規則70.16及び実施細則第607号参照）

    ☐ 第Ｉ欄４．及び補充欄に示したように、出願時における国際出願の開示の範囲を超えた補正を含むものとこの国際予備審査機関が認定した差替え用紙

  b．☐ 電子媒体は全部で ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿ （電子媒体の種類、数を示す）。
配列表に関する補充欄に示すように、コンピュータ読み取り可能な形式による配列表又は配列表に関連するテーブルを含む。（実施細則第802号参照）

4．この国際予備審査報告は、次の内容を含む。

  ☑ 第Ｉ欄 国際予備審査報告の基礎
  ☐ 第Ⅱ欄 優先権
  ☐ 第Ⅲ欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成
  ☐ 第Ⅳ欄 発明の単一性の欠如
  ☑ 第Ⅴ欄 ＰＣＴ35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
  ☐ 第Ⅵ欄 ある種の引用文献
  ☐ 第Ⅶ欄 国際出願の不備
  ☐ 第Ⅷ欄 国際出願に対する意見

国際予備審査の請求書を受理した日 12．04．2005	国際予備審査報告を作成した日 18．08．2005		
名称及びあて先 日本国特許庁（ＩＰＥＡ／ＪＰ） 郵便番号100－8915 東京都千代田区霞が関三丁目4番3号	特許庁審査官（権限のある職員） ▲徳▼田　賢二 電話番号　03－3581－1101　内線　3581	5Ｐ	9654

様式ＰＣＴ／ＩＰＥＡ／409（表紙）（2004年1月）

第Ⅰ欄 報告の基礎

1. この国際予備審査報告は、下記に示す場合を除くほか、国際出願の言語を基礎とした。

☐ この報告は、＿＿＿＿＿＿＿ 語による翻訳文を基礎とした。
それは、次の目的で提出された翻訳文の言語である。
☐ PCT規則12.3及び23.1(b)にいう国際調査
☐ PCT規則12.4にいう国際公開
☐ PCT規則55.2又は55.3にいう国際予備審査

2. この報告は下記の出願書類を基礎とした。（法第6条（PCT14条）の規定に基づく命令に応答するために提出された差替え用紙は、この報告において「出願時」とし、この報告に添付していない。）

☐ 出願時の国際出願書類

☑ 明細書
第 ＿＿＿1, 2, 5, 7-14, 16-21＿＿＿ ページ、出願時に提出されたもの
第 ＿＿＿3, 3/1, 4, 6, 6/1, 15＿＿＿ ページ*、＿＿12.04.2005＿＿ 付けで国際予備審査機関が受理したもの
第 ＿＿＿＿＿＿＿＿＿＿＿ ページ*、＿＿＿＿＿＿＿＿ 付けで国際予備審査機関が受理したもの

☑ 請求の範囲
第 ＿＿＿＿＿＿＿＿＿＿＿ 項、出願時に提出されたもの
第 ＿＿＿＿＿＿＿＿＿＿＿ 項*、PCT19条の規定に基づき補正されたもの
第 ＿＿＿＿＿1-7＿＿＿＿＿ 項*、＿＿12.04.2005＿＿ 付けで国際予備審査機関が受理したもの
第 ＿＿＿＿＿＿＿＿＿＿＿ 項*、＿＿＿＿＿＿＿＿ 付けで国際予備審査機関が受理したもの

☑ 図面
第 ＿＿＿＿＿2-7＿＿＿＿＿ ページ／図、出願時に提出されたもの
第 ＿＿＿＿＿1＿＿＿＿＿＿ ページ／図*、＿＿12.04.2005＿＿ 付けで国際予備審査機関が受理したもの
第 ＿＿＿＿＿＿＿＿＿＿＿ ページ／図*、＿＿＿＿＿＿＿＿ 付けで国際予備審査機関が受理したもの

☐ 配列表又は関連するテーブル
配列表に関する補充欄を参照すること。

3. ☑ 補正により、下記の書類が削除された。

☐ 明細書 第 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿ ページ
☑ 請求の範囲 第 ＿＿＿＿＿＿8＿＿＿＿＿＿ 項
☐ 図面 第 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿ ページ／図
☐ 配列表（具体的に記載すること） ＿＿＿＿＿＿＿＿＿＿＿＿＿＿
☐ 配列表に関連するテーブル（具体的に記載すること） ＿＿＿＿＿＿＿＿＿＿

4. ☐ この報告は、補充欄に示したように、この報告に添付されかつ以下に示した補正が出願時における開示の範囲を超えてされたものと認められるので、その補正がされなかったものとして作成した。（PCT規則70.2(c)）

☐ 明細書 第 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿ ページ
☐ 請求の範囲 第 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿ 項
☐ 図面 第 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿ ページ／図
☐ 配列表（具体的に記載すること） ＿＿＿＿＿＿＿＿＿＿＿＿＿＿
☐ 配列表に関連するテーブル（具体的に記載すること） ＿＿＿＿＿＿＿＿＿＿

＊ 4. に該当する場合、その用紙に "superseded" と記入されることがある。

第Ⅴ欄　新規性、進歩性又は産業上の利用可能性についての法第 12 条（ＰＣＴ35 条(2)）に定める見解、
　　　　それを裏付ける文献及び説明

1. 見解

　　新規性（Ｎ）　　　　　請求の範囲 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿1~7＿＿＿＿＿＿＿＿＿＿＿＿ 有
　　　　　　　　　　　　　請求の範囲 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿ 無

　　進歩性（ＩＳ）　　　　請求の範囲 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿1~7＿＿＿＿＿＿＿＿＿＿＿＿ 有
　　　　　　　　　　　　　請求の範囲 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿ 無

　　産業上の利用可能性（ＩＡ）　請求の範囲 ＿＿＿＿＿＿＿＿＿＿＿1~7＿＿＿＿＿＿＿＿＿＿＿＿ 有
　　　　　　　　　　　　　　　　　請求の範囲 ＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿＿ 無

2. 文献及び説明（ＰＣＴ規則 70.7）
　　　文献1：ＪＰ　６－３２６９６５　Ａ（ソニー株式会社）
　　　　　　，１９９４．１１．２５
　　　文献2：ＪＰ　１１－４３９８　Ａ（株式会社日立製作所）
　　　　　　，１９９９．０１．０６
　　　文献3：ＪＰ　９－３２２０５９　Ａ（キヤノン株式会社）
　　　　　　，１９９７．１２．１２
　　　文献4：ＪＰ　７－２０３２７８　Ａ（オリンパス光学工業株式会社）
　　　　　　，１９９５．０８．０４
　　　文献5：ＪＰ　２０００－２４４８１４　Ａ（株式会社日立製作所）
　　　　　　，２０００．０９．０８

　請求の範囲1乃至7に係る発明は、国際調査報告で引用されたいずれの文献にも記載
されておらず、当業者にとって自明なものでもない。

to be a panorama image from the two-screen images created by the two-screen image processing means; panorama image processing means for synthesizing the two-screen image selected by the panorama image selecting means as one image to create a panorama image; image displaying means for displaying the still images, the two-screen image, or the panorama image; and a recording medium that accumulates the still images and/or the panorama images, wherein when the selecting means selects any still image from the plurality of the still images created by the moving image processing means, the plurality of the still images is divided into a plurality of image candidate groups, each of which is composed of the number of still images corresponding to the predetermined number of frames determined in advance, wherein by sequentially selecting still images corresponding to the foremost frames of the divided image candidate groups at intervals and by displaying the still images as the two-screen image with the two-screen image processing means, an image candidate group to which a still image approximate to a desired still image belongs is selected as a selected image candidate group, and wherein by sequentially selecting each still image in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group to display the still image as the two-screen image with the two-screen image processing means, the panorama image selecting means can select the two-screen image to be a panorama image.

[0008]

Second technical means is the panorama image creation device of the first technical means, wherein the selecting means can select a still image corresponding to a foremost frame located at the beginning of the moving image from the still images created by the moving image processing means as a still image displayed in one window of the screen and can select any still image, in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group, corresponding to each frame subsequent to the foremost frame of the moving image as a still image displayed in the other window on the other side.

[0009]

Third technical means is the panorama image creation device of the first technical means, wherein the selecting means can select the panorama image accumulated in the recording medium as a still image displayed in one window of the screen from the two still image to be selected and can select any still image, in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group, corresponding to each frame subsequent to the foremost frame of the moving image as a still image displayed in the other window on the other side.

[0010] (canceled)

[0011]

Fourth technical means is the panorama image creation

device of any one of the first to <u>third</u> technical means, wherein when the two-screen image processing means creates the two-screen image composed of two still images selected by the selecting means and/or when the panorama image selecting means selects the two-screen image to be a panorama image, either or both positions of the two still images constituting the two-screen image can be moved or rotated in any vertical or horizontal directions.

[0012]

<u>Fifth</u> technical means is the panorama image creation device of any one of the first to <u>fourth</u> technical means, wherein when the panorama image processing means synthesizes the two-screen image to create a panorama image, smoothing processing can be performed in mutual overlapping portion of the two still images constituting the two-screen image.

[0013]

<u>Sixth</u> technical means is the panorama image creation device of any one of the first to <u>fifth</u> technical means, wherein when the panorama image processing means synthesizes the two-screen image to create a panorama image, the panorama image can be created as a scroll image sequentially scrolled to be displayed on the image displaying means.

[0014]

<u>Seventh</u> technical means is a panorama image imaging device comprising imaging means for imaging a moving image; and the panorama image creation device of any one of the first to <u>sixth</u>

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PREFERRED EMBODIMENTS OF THE INVENTION

[0020]

A panorama image creation device according to the present invention is provided with: moving image processing means for creating each still image corresponding to each frame of a moving image; selecting means for selecting any two still images from a plurality of the still images created by the moving image processing means; two-screen image processing means for creating a two-screen image displayed as two screens composed of two windows by scaling down or up each of two still images selected by the selecting means as well as by disposing the two still images such that portions of the respective still images overlap each other; panorama image selecting means for selecting a two-screen image to be a panorama image from the two-screen images sequentially created by the two-screen image processing means; panorama image processing means for synthesizing the two-screen image selected by the panorama image selecting means as one image to create a panorama image; image displaying means for displaying the still images, the two-screen image, or the panorama image; and a recording medium that accumulates the still images and/or the panorama images, wherein when the selecting means selects any still image from the plurality of the still images created by the moving image processing means, the plurality of the still images is divided into a plurality of image candidate groups, each of which is

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composed of the number of still images corresponding to the predetermined number of frames determined in advance, wherein by sequentially selecting still images corresponding to the foremost frames of the divided image candidate groups at intervals and by displaying the still images as the two-screen image with the two-screen image processing means, a selected image candidate group is selected as an image candidate group to which a still image approximate to a desired still image belongs, and wherein by sequentially selecting each still image in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group to display the still image as the two-screen image with the two-screen image processing means, the panorama image selecting means can select the two-screen image to be a panorama image, and therefore, a desired panorama image can be easily obtained.

[0021]

The selecting means can select a still image corresponding to a foremost frame located at the beginning of the moving image from the still images created by the moving image processing means or the panorama image accumulated in the recording medium as a still image displayed in one window of the screen and can select any still image , in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group, corresponding to each frame subsequent to the foremost frame of the moving image as a still image displayed in the other window on the other side, and therefore,

CLAIMS

1.   (amended) A panorama image creation device comprising:
moving image processing means for creating each still image
corresponding to each frame of a moving image; selecting means
for selecting any two still images from a plurality of the still
images created by the moving image processing means; two-screen
image processing means for creating a two-screen image displayed
as two screens composed of two windows by scaling down or up
each of two still images selected by the selecting means as
well as by disposing the two still images such that portions
of the respective still images overlap each other; panorama
image selecting means for selecting a two-screen image to be
a panorama image from the two-screen images created by the
two-screen image processing means; panorama image processing
means for synthesizing the two-screen image selected by the
panorama image selecting means as one image to create a panorama
image; image displaying means for displaying the still images,
the two-screen image, or the panorama image; and a recording
medium that accumulates the still images and/or the panorama
images, wherein when the selecting means selects any still image
from the plurality of the still images created by the moving
image processing means, the plurality of the still images is
divided into a plurality of image candidate groups, each of
which is composed of the number of still images corresponding
to the predetermined number of frames determined in advance,

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and wherein by sequentially selecting still images corresponding to the foremost frames of the divided image candidate groups at intervals and by displaying the still images as the two-screen image with the two-screen image processing means, an image candidate group to which a still image approximate to a desired still image belongs is selected as a selected image candidate group, and wherein by sequentially selecting each still image in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group to display the still image as the two-screen image with the two-screen image processing means, the panorama image selecting means can select the two-screen image to be a panorama image.

2. (amended) The panorama image creation device of claim 1, wherein the selecting means can select a still image corresponding to a foremost frame located at the beginning of the moving image from the still images created by the moving image processing means as a still image displayed in one window of the screen and can select any still image, in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group, corresponding to each frame subsequent to the foremost frame of the moving image as a still image displayed in the other window on the other side.

3. (amended) The panorama image creation device of claim 1, wherein the selecting means can select the panorama image accumulated in the recording medium as a still image displayed in one window of the screen and can select any still image, in the selected image candidate group and/or an adjacent image candidate group adjacent to the selected image candidate group, corresponding to each frame subsequent to the foremost frame of the moving image as a still image displayed in the other window on the other side.

4. (amended) The panorama image creation device of any one of claims 1 to 3, wherein when the two-screen image processing means creates the two-screen image composed of two still images selected by the selecting means and/or when the panorama image selecting means selects the two-screen image to be a panorama image, either or both positions of the two still images constituting the two-screen image can be moved or rotated in any vertical or horizontal directions.

5. (amended) The panorama image creation device of any one of claims 1 to 4, wherein when the panorama image processing means synthesizes the two-screen image to create a panorama image, smoothing processing can be performed in mutual overlapping portion of the two still images constituting the two-screen image.

6.   (amended) The panorama image creation device of any one of claims 1 to 5, wherein when the panorama image processing means synthesizes the two-screen image to create a panorama image, the panorama image can be created as a scroll image sequentially scrolled to be displayed on the image displaying means.

7.   (amended) A panorama image imaging device comprising: imaging means for imaging a moving image; and the panorama image creation device of any one of claims 1 to 6 as the panorama image creating means for creating a panorama image in a panorama image imaging device comprising panorama image creating means for creating a still image corresponding to each frame of the moving image imaged by the imaging means to use the created still images to create a panorama image, which is accumulated in a recording medium.

8.   (canceled)

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